

office of industrial technologies

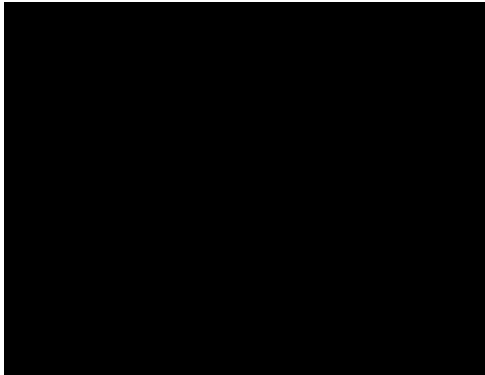
Office of Industrial Technologies
Saving Energy Today for a Secure Tomorrow



U.S. Department of Energy
Energy Efficiency and Renewable Energy

Office of Industrial Technologies

Saving Energy Today for a Secure Tomorrow



Grand Challenge (GC)

A Grand Challenge is an important technical problem facing an industry or group of industries that, if solved, holds the potential to produce large improvements in energy efficiency, environmental performance, or product yield.

Accordingly, GCs would typically involve some high-risk, high-return R&D and would require public-private partnerships consisting of one or more companies, states, national labs, and universities. In addition, the larger GC project will often be comprised of many smaller projects all integrated by a central project team and coordinated for the purpose of finding the best solution. It is expected that GCs would usually be published in competitive solicitations, and DOE would select the integrated project team that holds the greatest promise for finding a technically and commercially feasible solution. GCs may be specific to one industry or they may be cross-cutting. The qualification to be deemed a GC will be based on technical complexity, lack of previous solutions, and magnitude of proposed benefits, if solved.

Zothecas acquireret perspicax quadrupei, iam saetosus
umbraculi infeliciter agnascor oratori, quamquam fragilis
agricolae praemuniet cathedras.

Mission

The mission of the Office of Industrial Technologies (OIT) is to improve the energy intensity of the U.S. industrial sector through a coordinated program of research and development, validation, and dissemination of energy efficiency technologies and practices. OIT partners with industry, its equipment manufacturers, and its many stakeholders to reduce our Nation's reliance on foreign energy sources, reduce environmental impacts, increase the use of renewable energy sources, improve competitiveness, and improve the quality of life for American workers, families, and communities.

Vision

Working in partnership, OIT strives for a world where U.S. industry produces goods of extraordinary quality with minimal energy and environmental impact. By promoting high-yield manufacturing, product durability and recyclability the U.S. industrial base will be recognized for sustainability. Furthermore, production will be carried out using the most advanced technologies and practices to ensure that American workers have the tools and the skills to sustain our nation's continued economic vitality and energy security.



Goals

- *Energy Savings*
- *Environmental Quality (air, water, soil)*
- *Yield Improvement / Resource Conservation*
- *Economic Viability*
- *Energy Security*

Energy Savings - develop and promote technologies and practices that help industry use less energy per unit of output

Environmental Quality (air, water, soil) - develop and promote technologies and practices that minimize environmental impact and promote sustainability during the production life cycle.

Yield Improvement / Resource

Conservation - develop and promote technologies and practices that improve product yields and promote resource conservation during the production life cycle. Yield improvement will be pursued from a “systems” perspective, employing techniques such as elimination, substitution, reduction, reuse, and recycling.

Economic Viability - support the development of energy-saving technologies that improve the competitiveness of U.S. industry. Improvements will be sought in product yield, quality, durability, recyclability and life cycle cost.

Energy Security - support the development of energy-saving technologies that promote independence from foreign energy sources, provide resistance from foreign price competition, and maintain production capability in the United States for our major, energy-intensive industries.

OIT Operating Principles

- *Foster an environment where individual initiative and accomplishments are valued in a team setting*
- *Allocate resources to those technologies that offer the best investment relative to the potential energy savings. Use competitive solicitations to select and support proposals that offer the most technically and commercially feasible solutions*
- *Contribute to the value and balance of the overall EERE portfolio by supporting industrial R&D, validation, and dissemination activities (currently OIT pursues a combination of high-risk, high-return R&D and near-term Best Practices in order to fulfill our role)*
- *Capitalize on the capabilities of the EERE Regional Offices to perform technology and information dissemination (OIT considers the ROs the “provider of choice” for these services)*
- *Provide strategic leadership (Program Management) from EERE headquarters and rely on field Project Managers to oversee individual projects (HQ will serve an integrating role by collecting information from field Project Managers, evaluating the combined effects of those projects, and providing guidance and/or shifting resources to optimize opportunities to achieve the stated EERE goals)*
- *Seek opportunities to work with all other EERE programs to collectively contribute to the success of the entire EERE team (this behavior will be recognized and rewarded)*
- *Serve as good stewards of the public resources appropriated to carry out the mission (support good projects, terminate non-performing projects, and seek financial efficiency and accountability at all times)*
- *Partner with industry, states, national laboratories, universities, other federal agencies, and other nations to jointly achieve the EERE and OIT missions and leverage resources for mutual benefit*

A Strong Energy Portfolio for a Strong America

*Energy efficiency and clean, renewable energy
will mean a stronger economy, cleaner
environment, and greater energy independence
for America. Working with a wide array of state,
community, industry, and university partners,
the U.S. Department of Energy's Office of
Energy Efficiency and Renewable Energy invests
in a diverse portfolio of energy technologies.*



U.S. Department of Energy
Energy Efficiency and Renewable Energy

*Bringing you a prosperous future
where energy is clean, abundant,
reliable, and affordable*